

COMPREHENSIVE BOTANY OPTION

This option is offered within the following major(s):

- Botany - College of Agricultural Sciences (<http://catalog.oregonstate.edu/college-departments/agricultural-sciences/botany-plant-pathology/botany-bs-hbs/>)

The Comprehensive Botany option is aimed at the student who wants broadly-based and high-level botanical knowledge and skills appropriate for botany careers and graduate education.

Option Code: 932

The Comprehensive Botany option requires 16–17 credits of 400-level BOT courses that provide a broad and sophisticated education in the five learning objectives of the botany core: structure, systematics, ecology, physiology, and genomics (list A). These courses cover aquatic botany, a second course in non-vascular plants, plant population ecology, environmental physiology/photobiology, and genome-enabled plant biology. Students choose an additional 4–5 credits of course work with permission of the advisor. These courses may be BOT advanced courses or courses in other departments (e.g., BI, BB, CROP, CSS, HORT, PBG). Up to 3 credits of approved Experiential Learning can also be applied to the option.

Code	Title	Credits
A. Courses Required for Option		
<i>Plant Structure/Diversity/Systematics</i>		
BOT 416	AQUATIC BOTANY	4
Select one of the following:		4-5
BOT 461	MYCOLOGY	
BOT 465	LICHENOLOGY	
BOT 466	BRYOLOGY	
<i>Plant Ecology</i>		
BOT 442	PLANT POPULATION ECOLOGY	3
<i>Plant Physiology/Biochemistry</i>		
BOT 480	PHOTOSYNTHESIS AND PHOTOBIOLOGY	3
or BOT 488	ENVIRONMENTAL PHYSIOLOGY OF PLANTS	
<i>Plant Genomics</i>		
Select one of the following:		3-4
BOT 458	ECOSYSTEMS GENOMICS	
BOT 460	FUNCTIONAL GENOMICS	
BOT 475	COMPARATIVE GENOMICS	
B. Electives		
Select additional 4-5 credits from BOT or other courses with permission of advisor ¹		4-5
Total Credits		21-24

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One elective may double count for another BCC or BOT requirement, such as a Bacc Core synthesis course or an additional quantitative skills class. Up to 3 credits of approved Experiential Learning can be applied in this category.

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